

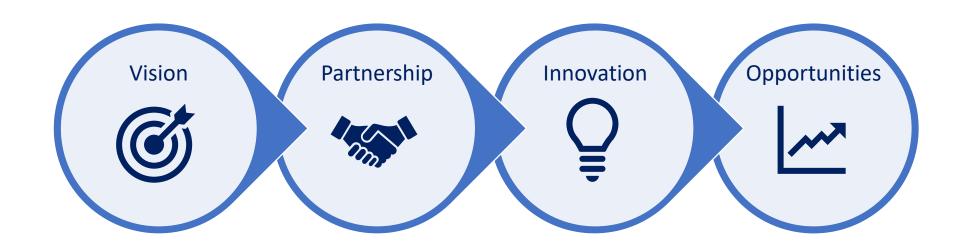
Partnering for success: Microsoft's journey with Open edX

Jhansi Reddy Sarav Palaniyandi Sathishkumar Eswaran

Microsoft Worldwide Learning



### Our Approach







Vision



#### Our Mission

Empower every person and every organization on the planet to achieve more

"Achieving our mission requires us to evolve our culture, and it all starts with a growth mindset— a passion to learn and bring our best every day to make a bigger difference in the world"

Satya Nadella

#### Microsoft – Learning as a Service (LaaS) Vision

**Go Where Learners Are** 

Make learning and skills development easy

Global scale with local relevance

Provide an experience for flexibility, scalability and insights

21st Century Technical Workforce Skilling

Deliver cutting edge curricula and learning paths

Help job-task aligned skills for future job roles



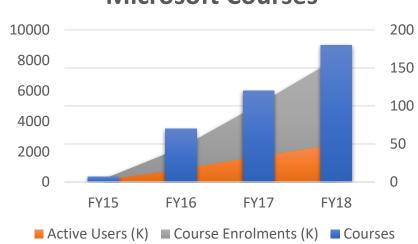
# Partnership

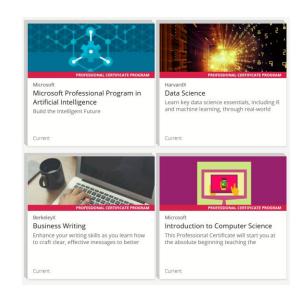
# **OPENedX 2018**



## Microsoft Partnership

#### **Microsoft Courses**



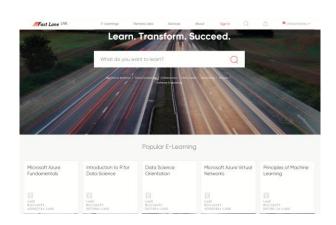


#### Vision

#### Innovation







### Our journey...

2015 2017 2018 2016 5.6 Mn Course Enrolments 3.4 Mn Course Enrolments 1.4 Mn Course Enrolments 180K Course 180 courses 70 courses enrollments 163 LaaS Partner sites on LaaS Pilot Completed Microsoft Professional Open edX Program (MPP) Announced • 7 courses

#### edX and Professional Certificates





Big Data 12-30 hours per course

Designing systems that capture, process, and analyze data is critical for companies in order to have a competitive advantage. This curriculum takes students from their first select statement to orchestrating big data workflows in the cloud.

View details >



frameworks ranging from HTML, CSS, and

JavaScript, to Angular, Bootstrap, and jQuery.

View details >









#### DevOps 8-16 hours per course

To support companies to be more agile, the lines between development and operations are becoming increasingly blurred. Through continuous integration and deployment, students will learn how to react to changing market conditions.

View details >



#### IT Support 8-16 hours per course

The help desk is the front line of engagement for customers when problems arise. With the IT Support track you will learn a wide range of skills to diagnose, troubleshoot, and solve customer issues.

View details



#### Artificial Intelligence 8-16 hours per course

Artificial Intelligence (AI) will define the next generation of software solutions. Human-like capabilities such as understanding natural language, speech, vision, and making inferences from knowledge will extend software beyond the app.

View details



#### Development

8-16 hours per course

Nearly all tech that you engage with relies on software. The job outlook for software developers is growing year after year. Simply put, Software Developers are the people bringing the modern world to life.

View details >

Introduced Professional Certificate + Certification exam for bundle offer

#### Offering 8 Microsoft Professional Program Tracks

# Richard Tapia diversity in computing conference

Atlanta, Sep 2017

Jointly sponsored by





- Provided half-day Big Data training to 46 students
- Students were given
   vouchers for 3 edX courses

#### Learning as a Service (LaaS) - Overview

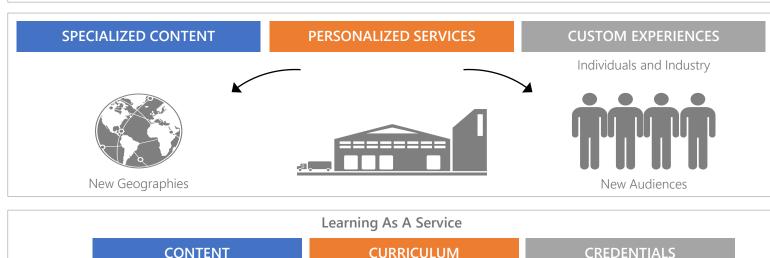
Learners

#### Microsoft Professional Program

- Job Role Focus
- Capstone Project
- Premium Credential

#### **Individual Courses**

- Skill Focus
- Individual Course Credential (MOOC Certificates)



**Partners** 

Microsoft

**Partners** 





#### Customer testimonials – Torsten Poels, Fast Lane







Synergitics – Enterprise Partner Case Study

- **Challenges Identified**
- Large Scale training for 100,000 Software professionals
- Continuous Monitoring of Learning **Progress**

Status: 4000 Learners registered, 1000 course completions

### Be Proficient i Science

Scared to step up in the world of o with an exhaustive course for data your path to make the career in da

Learn More

#### Customer testimonials – Leslie Loh, Lithan



Working with Govt.
of Singapore to
map competency
framework and
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#### Content



DEV295x Introduction to Device Programming



DEV212x Introduction to DevOps



DEV276x Introduction to Java



DEV262x Logic and Computational Thinking



DEV211.1x Introduction to HTML, CSS and JavaScript Web Development



DEV211.1x Introduction to HTML, CSS and JavaScript Web Development



AZURE206x Microsoft Azure App Service



DEV288x Natural Language Processing (NLP)



DEV277x Object Oriented Programming in Java

140 Courses on the Latest Technologies and Jobs

**Curated Learning Paths** 

Self-paced and Blended Learning Modalities

**Quarterly Refreshes and Additions** 

#### Centralized Credential: Microsoft Endorsement

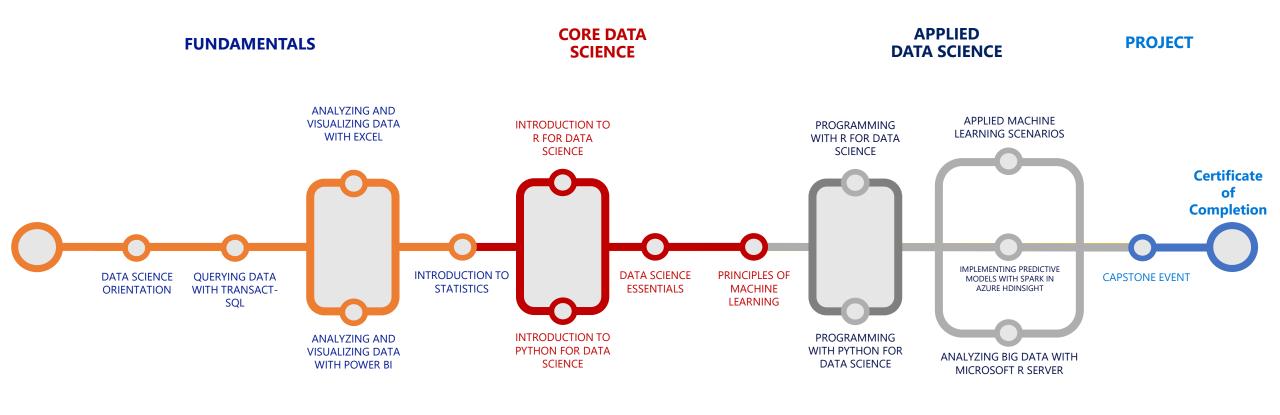


Central location to view all the Microsoft Certificates

LTI Integration in all courses to integrate with Microsoft Certificates

Leverage OAUTH and "Grades" API to check course completion and passing status

#### Curriculum – Ex: Data Science Track



Skills

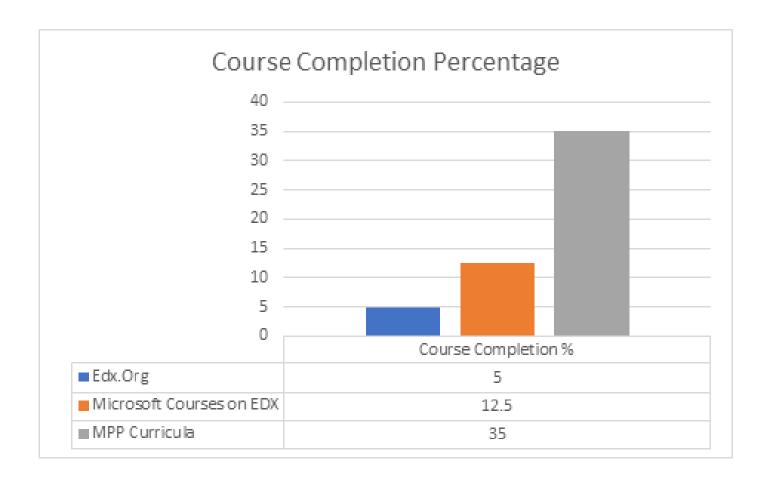
How the Microsoft Data Science program works

Query Relational Data Analyze and Visualize Data Performing Statistical and Probability Analysis Explore Data with Code

Understand Core Data Science Concepts Understand Machine Learning Use code to Model and Manipulate Data **Applied Data Science** 

**Final Project** 

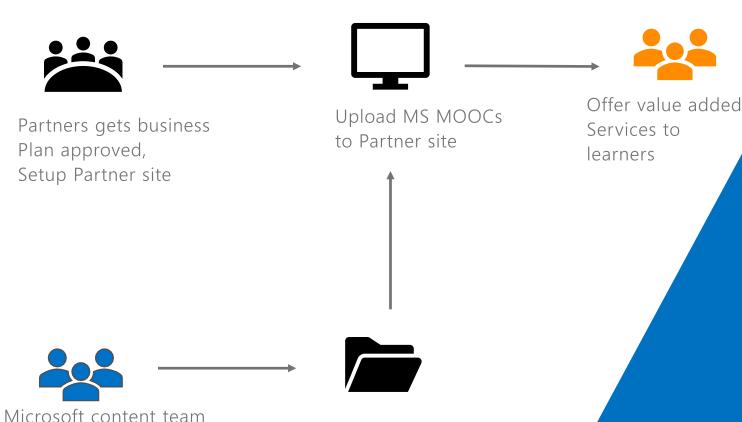
### Course Completion



- 150% more completion rate for Microsoft courses
- Much higher(6 fold)
   completion rates for
   courses when students
   are signed up for MPP

### Learning As A Service – Partner Flow

Through partner learning syndication leveraging cloud services model



Uploads courses quarterly



- Microsoft provides deployment templates
- Microsoft MOOCs provided to partners for import into their own Open edX instances
- Each MOOC contains a LTI module to enable Microsoft Achievement workflow

#### Learning As A Service – Learner Flow

Through partner learning syndication leveraging cloud services model



Learners discover offers on Partner's site, enroll, pay



Share credential, Enroll in MPP @ Academy.Microsoft.Com



Pass Microsoft MOOC on Partner site



Retrieve Microsoft Certificate @ Academy.Microsoft.Com

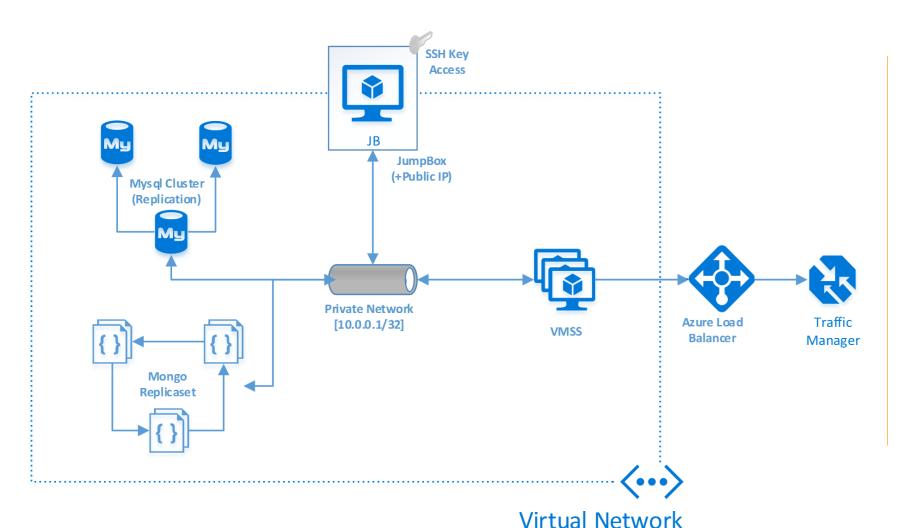


- Learner discovers partner sites and enrolls
- Partners offer online or blended training
- Learner completes the course
- Learners have centralized place on academy.microsoft.com to view achievements



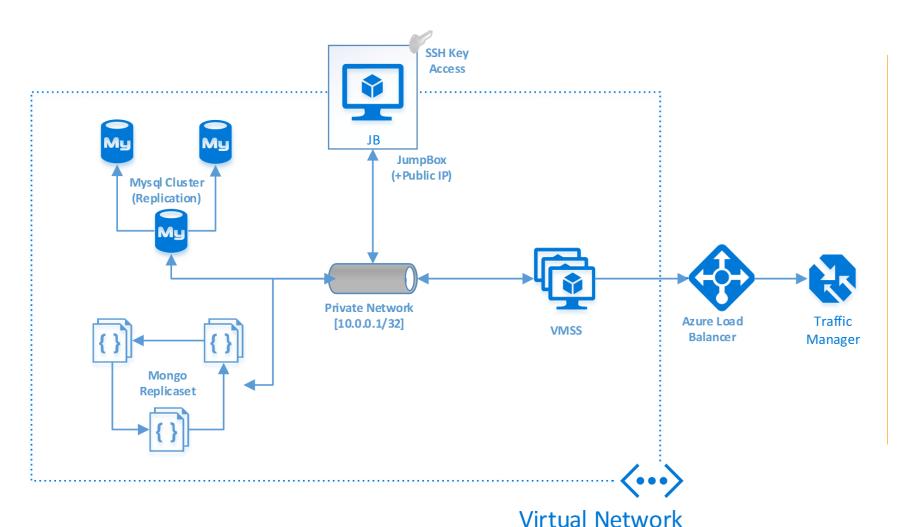
### Platform Innovations

### Platform – Open edX on Azure



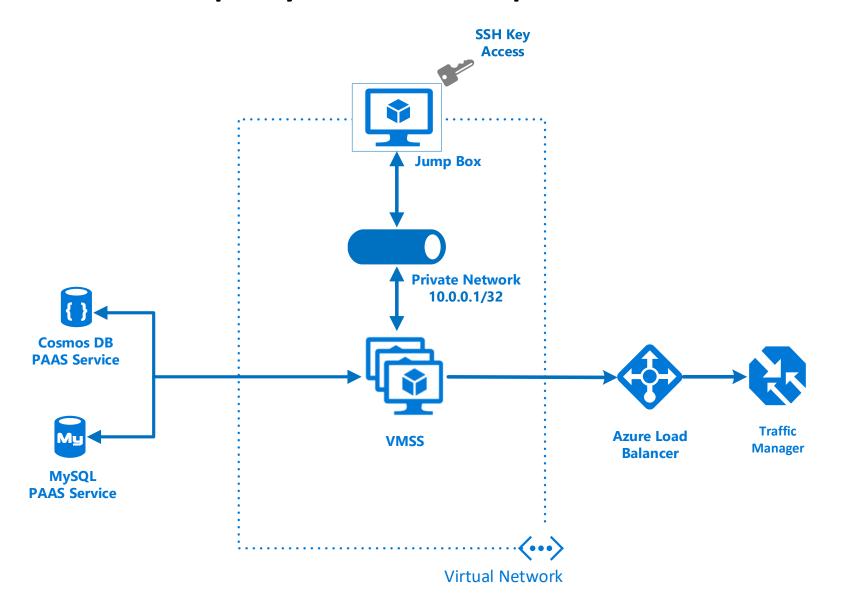
- Enterprise grade infrastructure
- Highly scalable, reliable, and available
- Highly secured frontend and backend
- Disaster Recovery and failover

#### Platform – Open edX on Azure



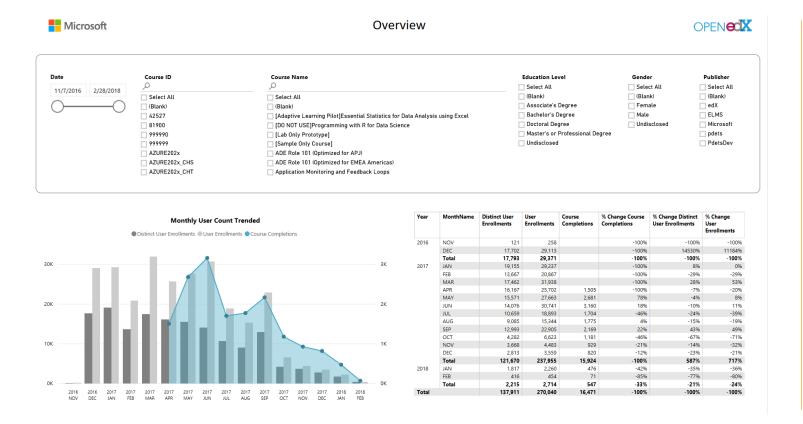
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#### Future Deployment Simplification



- Enterprise grade infrastructure
- Highly scalable, reliable, and available
- Reduced hosting cost with no overhead of deploying and managing backends
- Uses Azure Platform As A Service for MySQL and Cosmos DB (Mongo)

### Reporting using PowerBI (Starter Template)



- PowerBI Dashboard provides an overview of the multi publisher view of the LaaS Open edX Instance
- Working prototype for the LaaS MySQL instance, easily extensible for basic reporting views
- Provides capability to slice and dice on user demographics, Courses and Publishers.





# Opportunities

# Geo distribution of LaaS sites on Open edX







http://edtechreview.in/news/3118glocal-university-partners-withmillionlights

- Targeting skilling graduates from tier 3 colleges in India
- Partnered with Glocal university to offer online and onsite training and placement
- Will be training 25000 students in next 4 years

### Datachangers – D&I Project in Netherlands

MICROSOFT AZURE ACADEMY | POWERED BY TECHIONISTA + DATACHANGERS



Je data science team uitbreiden? What dacht je van een Techionista?

ONTMOET ONZE KANDIDATEN TIJDENS
DE BANENMARKT OP 12 JUNI!

Data Scientists | Data Consultants | Data Analisten

DIT TRAJECT KWAM TOT STAND IN SAMENWERKING MET:



techionista





- 24 Women started Microsoft Azure Academy
- Location Johan Cruyff Arena
- Powered Techionista and DataChangers
- 11 weeks of intensive training to get MPP Data Science Credential.



# Marian Dragt, Datachangers



Q&A

Thank you